Initializer List Solutions

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std::initializer_list

- Briefly describe std::initializer_list
  - std::initializer_list is a parametrized type that represents an array of const values
  - We define it by giving the parameter type and a list of values

    initializer_list<int> il {3, 1, 4, 1, 5, 9};
  - It is useful for passing and returning a variable number of arguments of the same type
  - It supports iterators and has begin() and end() member functions, so it is easy to write loops which process initializer lists

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std::initializer_list example

- Write a function which takes an std::initializer_list as argument and prints out its elements
- Write a simple program to test your function

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Constructor with initializer_list

- Why is it useful to have a class with a constructor that takes an std::initializer_list as argument?
  - This constructor can be used to initialize objects with a variable number of elements, e.g. std::vector
- Write a simple class which has a constructor that takes std::initializer_list and a member function to print out its arguments
- Write a program to test your class

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